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Ala Ile Ser Asp Leu Leu Phe Ile Ser Thr Leu Pro Phe Arg Ala Asp 65 70 75 80

Tyr Tyr Leu Arg Gly Ser Asn Trp Ile Phe Gly Asp Leu Ala Cys Arg 85 90 95

Ile Met Ser Tyr Ser Leu Tyr Val Asn Met Tyr Ser Ser Ile Tyr Phe 100 105 110

Leu Thr Val Leu Ser Val Val Arg Phe Leu Ala Met Val His Pro Phe 115 120 125

Arg Leu His Val Thr Ser Ile Arg Ser Ala Trp Ile Leu Cys Gly 130 135 140

Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile Met Leu Leu Asp Ser

24

Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu 165  $$170\ \ \, 175\ \ \, 175\ \ \, 175$ 

Tyr Lys Ile Ala Lys Leu Gln Thr Met Asn Tyr Ile Ala Leu Val Val 180 185

Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile Cys Tyr Leu Leu Ile 195 \$200\$

Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu Ser Gly Leu Arg Val
210 215 220

Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe 225 230 235

Phe Leu Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr 245 250 255

Thr Trp Lys Val Gly Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val \$260\$ \$265\$

Ile Thr Leu Ala Leu Ala Ala Ala As<br/>n Ala Cys Phe As<br/>n Pro Leu Leu 275 \$280\$ 285

Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu 290 \$295\$ 300

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Met Glu Pro Asn Gly Thr Phe Ser Asn Asn Asn Ser Arg Asn Cvs Thr
             20
                                 25
att gaa aac ttc aag aga gaa ttt ttc cca att gta tat ctg ata ata
Ile Glu Asn Phe Lys Arg Glu Phe Phe Pro Ile Val Tyr Leu Ile Ile
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                             40
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Gln Pro Tvr Lys Lys Ser Thr Ser Val Asn Val Phe Met Leu Asn Leu
65
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                                         75
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Ala Ile Ser Asp Leu Leu Phe Ile Ser Thr Leu Pro Phe Arg Ala Asp
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tat tat ctt aga ggc tcc aat tgg ata ttt gga gac ctg gcc tgc agg
                                                                   336
Tyr Tyr Leu Arg Gly Ser Asn Trp Ile Phe Gly Asp Leu Ala Cys Arg
            100
                                105
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Ile Met Ser Tyr Ser Leu Tyr Val Asn Met Tyr Ser Ser Ile Tyr Phe
        115
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Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala Trp Ile Leu Cys Gly 150 150 150 160 atc ata tgg atc ctt atc atg gct toc tos ata atg ctc ctg gac agt Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile Met Leu Leu Asp Ser 165 170 175 ggc tot gag cag aac ggc agt gtc aca tca tgc tta gag ctg aat ctc Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu 180 185 190 195 200 205 205 205 205 205 205 205 205 20	
The The Trp The Leu The Met Ala Ser Ser The Met Leu Leu Asp Ser 165 170 175  ggc tot gag cag aac ggc agt gtc aca to to to got got got gat ctc gag cag aac ctc atg atc atc 185 190  tat aaa att gct aag ctg cag acc atg aac tat att gct ttg gtg gtg Tyr Lys The Ala Lys Leu Gln Thr Met Asn Tyr The Ala Leu Val Val 195 200 205  ggc tgc ctg ctg cca ttt ttc aca ctc agc atc tgt tat ctg ctg atc Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser The Cys Tyr Leu Leu The 210 215 220  att cgg gtt ctg tta aaa gtg gag gtc cca gaa tog gtg ctg cgg gtt 72 216 Arg Val Leu Leu Lys Val Glu Val Pro Glu Ser Gly Leu Arg Val 225 230 240  tct cac agg aag gca ctg acc acc atc atc atc acc ttg atc atc ttc Ser His Arg Lys Ala Leu Thr Thr I lel I le Thr Leu I le The Phe 245 250 255  ttc ttg tgt ttc ctg ccc tat cac aca ctg agg acc gtc cac ttg acg gth Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr 260 265  aca tgg aaa gtg ggt tta tgc aaa gac aga ctg cat aaa gct ttg gt Thr Tyr Lys Val Gly Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val 275  aca aca ctg gca ttg gca gca gac act gcc ttc aat cct ctg ctc 11e Thr Leu Ala Lau Ala Ala Ala Ala Ala Cys Phe Asn Pro Leu Leu 290 295 300  tat tac ttt gct ggg gag aat ttt aag gac aga cta aag tct gca ctc Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu 777 Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu	
Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu 180 180 190 62 185 190 190 180 180 180 180 180 180 180 180 180 18	
Tyr Lys Ile Ala Lys Leu Gln Thr Met Asn Tyr Ile Ala Leu Val Val 195 200 205  ggc tgc ctg ctg cca ttt ttc aca ctc agc atc tgt tat ctg ctg atc Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile Cys Tyr Leu Leu Ile 210 215 220  att cgg gtt ctg tta aaa gtg gag gtc cca gaa tcg ggg ctg cgg gtt Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu Ser Gly Leu Arg Val 225 230 240  tct cac agg aag gca ctg acc acc atc atc atc acc ttg atc atc ttc Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe 245 250 255  tct ttg tgt ttc ctg ccc tat cac aca ctg agg acc gtc cac ttg acg Phe Leu Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr 260 270  aca tgg aaa gtg ggt tta tgc aaa gac aga ctg cat aaa gct ttg gtt Trr Lys Val Gly Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val 275  atc aca ctg gcc ttg gca gcc aat gcc tgc ttc aat cct ctg ctc Ile Thr Leu Ala Ala Ala Ala Ala Ala Ala Cys Phe Asan Pro Leu Leu 290 295  tat tac ttt gct ggg gag aat ttt aag gac aga cta aag tct gca ctc Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu	
Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile Cys Tyr Leu Leu Ile 210  215  220  att cgg gtt ctg tta aaa gtg gag gtc cca gaa tcg ggg ctg cgg gtt Ile Arg Val Leu Leu Lys Val Clu Val Pro Glu Ser Gly Leu Arg Val 225  230  235  240  tct cac agg aag gca ctg acc acc acc atc atc acc ttg atc atc ttc Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile Ile Ile Ile Phe 245  250  255  tct ttg tgt ttc ctg ccc tat cac aca ctg agg acc gtc cac ttg acg Phe Leu Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr 260  265  270  aca tgg aaa gtg ggt tta tgc aaa gac aga ctg cat aaa gct ttg gtt Thr Trp Lys Val Gly Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val 275  atc aca ctg gcc ttg gca gcc gcc act gcc tc aat cct ctg ctc Ile Thr Leu Ala Leu Ala Ala Ala Asn Ala Cys Phe Asn Pro Leu Leu 290  295  tat tac ttt gct ggg gag aat ttt aag gac aga cta aag tct gca ctc Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu	
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Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe 245 255  ttc ttg tgt ttc ctg ccc tat cac aca ctg agg acc gtc cac ttg acg Phe Leu Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr 260 265 270  aca tgg aaa gtg ggt tta tgc aaa gac aga ctg cat aaa gct ttg gtt Thr Tyr Lys Val Gly Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val 275 280 285  atc aca ctg gcc ttg gca gcc act gcc tgc ttc aat cct ctg ctc Ile Thr Leu Ala Leu Ala Ala Ala Ash Ala Cys Phe Asn Pro Leu Leu 290 295 300  tat tac ttt gct ggg gag aat ttt aag gac aga cta aag tct gca ctc Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu	
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Ile Glu Asn Phe Lys Arg Glu Phe Phe Pro Ile Val Tyr Leu Ile Ile 35  $$\rm 40$$ 

Phe Phe Trp Gly Val Leu Gly Asn Gly Leu Ser Ile Tyr Val Phe Leu  $50 \ \ \, 55$ 

Gln Pro Tyr Lys Lys Ser Thr Ser Val Asn Val Phe Met Leu Asn Leu 65 70 75 80

Ala Ile Ser Asp Leu Leu Phe Ile Ser Thr Leu Pro Phe Arg Ala Asp \$85\$ 90 95

Tyr Tyr Leu Arg Gly Ser Asn Trp Ile Phe Gly Asp Leu Ala Cys Arg 100 105 110

Ile Met Ser Tyr Ser Leu Tyr Val Asn Met Tyr Ser Ser Ile Tyr Phe \$115\$ \$120\$ \$125\$

Leu Thr Val Leu Ser Val Val Arg Phe Leu Ala Met Val His Pro Phe 130 135 140

Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala Trp Ile Leu Cys Gly 145 150 150 160

Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile Met Leu Leu Asp Ser 165 170 175

- Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu 180 185 190
- Tyr Lys Ile Ala Lys Leu Gln Thr Met Asn Tyr Ile Ala Leu Val Val  $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205$
- Glý Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile Cys Tyr Leu Leu Ile 210 215 220
- Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu Ser Gly Leu Arg Val 225 \$230\$ 235 \$240
- Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe 245 250 255
- Phe Leu Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr 260 265 270
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- Ile Thr Leu Ala Leu Ala Ala Ala Asn Ala Cys Phe Asn Pro Leu Leu 290 \$295\$ 300
- Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu 305 \$310\$ \$315\$ 320
- Arg Lys Gly His Pro Gln Lys Ala Lys Thr Lys Cys Val Phe Pro Val \$325\$
- Ser Val Trp Leu Arg Lys Glu Thr Arg Val 340 345